



## Structure Inventory and Appraisal

Bridge ID: GOODRICH-129091 FHWA No.: 129091	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Official</td> <td>SR: 86.1</td> <td>SD/FO: Not Deficient or Obsolete</td> </tr> <tr> <td>Unofficial</td> <td>SR: 88.1</td> <td>SD/FO: Not Deficient or Obsolete</td> </tr> </table>	Official	SR: 86.1	SD/FO: Not Deficient or Obsolete	Unofficial	SR: 88.1	SD/FO: Not Deficient or Obsolete
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Unofficial	SR: 88.1	SD/FO: Not Deficient or Obsolete					
<b>IDENTIFICATION</b> 7 Facility Carried: LOCAL 5B Rte. Signing Prefix: 4 5C Level of Service: 1 - MAINLINE 5D Inventory Route: 00000 City: RURAL 3 County: 024 - Crawford 9 Location: 084391601 5E Directional Suffix: 0 - NOT APPLICABLE 6 Feature Intersected: BUFFALO CREEK 2 District: 0 Garage: 000 98 Border Bridge Code: % Responsibility: 0 99 Border Bridge No.:	<b>INSPECTION</b> 90 Inspection Date: 03/30/2016 Next Routine Insp Date: 03/30/2018 Inspection Agency: 5 - Consultant 93A FC Inspection Date: 92A FC Frequency: 0 93B UW Inspection Date: 92B UW Frequency: 0 93C SI Date: 92C SI Frequency: 0 Other Non-NBI Date: Other Non-NBI Freq.:						
<b>STRUCTURE TYPE AND MATERIALS</b> 43A Main Span: 3 - Steel 43B Main Span Design: 02 - Stringer/Multi-beam or Girder 45 No. Spans Main Unit: 2 44A Appr. Span: 000 - NA 44B Appr. Span Design: 000 - NA 46 No. of Appr. Spans: Near 0 Far 0 107 Deck Type: 8 - Wood or Timber 108A Wearing Surface: 9 - Other 108B Membrane: 0 - None 108C Deck Protection: 0 - None	<b>CONDITION</b> 58 Deck: 7 - Good Condition (some minor problems) 59 Super: 7 - Good Condition (some minor problems) 60 Sub: 6 - Satisfactory Condition (minor deterioration) 61 Channel/Channel Prot.: 6 - Bank slump, widespread minor damage 62 Culvert: N - Not Applicable						
<b>GEOMETRIC DATA</b> 48 Length Max Span: 26 ft. 49 Structure Length: 52 ft. 34 Skew: 0° Deck Area: 1248.0 sq. ft. 50B Curb/Sdwk Width R: 0 ft. 50A Curb/Sdwk Width L: 0 ft. 51 Width Curb to Curb: 24.0 ft. 62 Width Out to Out: 24.0 ft. 32 Appr. Roadway width: 26 ft. (w/ Shoulders) 33 Median: 0 - No median 35 Structure Flared: 00 - No flare 10 Vertical Clearance: 99'99" 47 Horiz. Clearance: 24'00" 53 Min. Vert. Clearance Over: 99'99" 54B Min. Vert. Underclearance: 00'00" 65 Min. Lat. Underclearance R: 00'00" 56 Min. Lat. Underclearance L: 00'00"	<b>APPRAISAL</b> 67 Str. Evaluation: 6 - Equal to present minimum criteria 68 Deck Geometry: 6 - Equal to present minimum criteria 69 Underclear Vert & Horiz: N - Not applicable 71 Waterway Adequacy: 6 - Occasional Overtopping of Approaches 72 Approach Alignment: 6 - Equal to present minimum criteria 36A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED. 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 36D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED 113 Scour Critical: 3 - Scour Critical - Unstable						
<b>NAVIGATION DATA</b> 38 Navigation Control: 0 - No navigation control on waterway (bridge permit not required) 111 Pier Protection: 39 Vertical Clearance: 00'00" 40 Horiz. Clearance: 000'00"	<b>LOAD RATING AND POSTING</b> 31 Design Load: 0 - Unknown 63 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading. 64 Operating Rating: 32.3 Tons 65 Rating Method: 2 - Allowable Stress (AS) reported in english tons using HS-20 loading. 66 Inventory Rating: 25.7 Tons 70 Posting: 5 - Equal to or above legal loads 41 Posting Status: A - Open						
16 Latitude: 42.09462828      17 Longitude: -95.39551671	<b>AGE AND SERVICE</b> 27 Year Built: 1991      Design No.: 0 106 Year Reconstructed: 2002 42A Type of Service on: 1 - Highway 42B Type of Service Under: 5 - Waterway 28A Lanes on: 2      28B Lanes under: 0 29 ADT: 15      30 Year of ADT: 2012 109 Truck ADT: 0 %      Speed Limit: 55 19 Detour Length: 4 mi.						
FRA No. (if RR Bridge): Mile Post:	<b>CLASSIFICATION</b> 112 NBIS Length: Y 26 Functional Class: 09 - Rural - Local 100 STRAHNET: 0 - Not a defense highway 101 Parallel Structure: N - No parallel structure 102 Direction of Traffic: 2 - 2-way traffic 22 Owner: 02 - County Highway Agency 21 Custodian: 02 - County Highway Agency 37 Historical Significance: 5 - Not eligible 75A Type of Work Proposed: 31 - Replacement - Load/Geometry 75B Work Done by: 2 - Work to be done by owner's forces						



## Structure Inventory and Appraisal

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 FHWA No.: 129091

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**IDENTIFICATION**

7 Facility Carried: LOCAL  
 5B Rte. Signing Prefix: 4  
 5C Level of Service: 1 - MAINLINE  
 5D Inventory Route: 00000  
 City: RURAL  
 3 County: 024 - Crawford  
 9 Location: 084391601  
 5E Directional Suffix: 0 - NOT APPLICABLE  
 6 Feature Intersected: BUFFALO CREEK  
 2 District: 0  
 Garage: 000  
 98 Border Bridge Code:  
 % Responsibility: 0  
 99 Border Bridge No.:

**INSPECTION**

**90 Inspection Date: 04/21/2014**  
 Next Routine Insp Date: 04/21/2016  
 Inspection Agency: 5 - Consultant  
 93A FC Inspection Date:  
 92A FC Frequency: 0  
 93B UW Inspection Date:  
 92B UW Frequency: 0  
 93C SI Date:  
 92C SI Frequency: 0  
 Other Non-NBI Date:  
 Other Non-NBI Freq.:

Inspection Type: N/A  
 91 Frequency: 24  
 Next Insp Type: Regular  
 Inspection Group: Crawford County  
 Next FC Insp.: NA  
 Next UW Insp.: NA  
 Next Spec. Insp.: NA  
 Next Other Insp.: NA

**STRUCTURE TYPE AND MATERIALS**

43A Main Span 3 - Steel  
 43B Main Span Design: 02 - Stringer/Multi-beam or Girder  
 45 No. Spans Main Unit: 2  
 44A Appr. Span 000 - NA  
 44B Appr. Span Design: 000 - NA  
 46 No. of Appr. Spans: Near 0 Far 0  
 107 Deck Type: 8 - Wood or Timber  
 108A Wearing Surface: 9 - Other  
 108B Membrane: 0 - None  
 108C Deck Protection: 0 - None

**CONDITION**

58 Deck: 7 - Good Condition (some minor problems)  
 59 Super: 7 - Good Condition (some minor problems)  
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**GEOMETRIC DATA**

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 49 Structure Length: 52 ft.  
 34 Skew: 0°  
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 50B Curb/Sdwb Width R: 0 ft.  
 50A Curb/Sdwb Width L: 0 ft.  
 51 Width Curb to Curb: 24.0 ft.  
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 32 Appr. Roadway width: 26 ft.  
 (w/ Shoulders)  
 33 Median: 0 - No median  
 35 Structure Flared: 00 - No flare  
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 53 Min. Vert. Clearance Over: 99'99"  
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**APPRAISAL**

67 Str. Evaluation: 6 - Equal to present minimum criteria  
 68 Deck Geometry: 6 - Equal to present minimum criteria  
 69 Underclear Vert & Horiz: N - Not applicable  
 71 Waterway Adequacy: 6 - Occasional Overtopping of Approaches  
 72 Approach Alignment: 4 - Meets minimum tolerable limits  
 36A Bridge Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED.  
 36B Transition: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED  
 36C Approach Rail: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED  
 36D Approach Rail Ends: 0 - DOES NOT MEET CURRENT SAFETY STANDARDS, OR IS NOT THERE AND IS NEEDED  
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**NAVIGATION DATA**

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 0 - No navigation control on waterway (bridge permit not required)  
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**LOAD RATING AND POSTING**

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 42B Type of Service Under: 5 - Waterway  
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 29 ADT: 15      30 Year of ADT: 2012  
 109 Truck ADT: 0 %      Speed Limit: 55  
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**CLASSIFICATION**

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# Crawford County Day Labor Bridge Construction

Prepared By: Kass Ward / Terry Latta Date: 10-25-02

Township: Goodrich Section: 9-16 E911 Rd.: I Ave

FHWA No.: 129091 Date Reconstructed:

Describe Work: Bridge Replacement

Bridge Length: <u>52'</u>	Bridge Width:	Open Depth:				
<b>Beam Info.</b>	<b>Deck Info.</b>	<b>Diaphragm Info.</b>				
Beam Type: <u>(W) S</u>	Deck Type: <u>Wood Plank</u>	# Bolts per Angle: <u>5</u>				
Beam Spacing: <u>30 1/2 C-C</u>	Top: <u>3" x 16"</u> Longitudinal	Bolt Size: <u>3/4"</u>				
Beam Depth: <u>16"</u>	Bottom: <u>4"</u> Transverse	Diaphragm Length: <u>30 1/2 x 12"</u>				
Flange: <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 50px;">Width</td><td style="width: 50px;">Thickness</td></tr><tr><td style="text-align: center;"><u>7"</u></td><td style="text-align: center;"><u>3/8"</u></td></tr></table>	Width	Thickness	<u>7"</u>	<u>3/8"</u>	Spacing on Bottom: <u>28" C-C</u>	Diaphragm Size: <u>C12 x 20.7</u>
Width	Thickness					
<u>7"</u>	<u>3/8"</u>					
Web Thickness: <u>1/4"</u>						



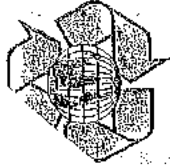
Substructure Comments:

Comments: 2 Spans of 26' each

Post-it* Fax Note		7671	Date: <u>10/25/02</u>	# of pages: <u>2</u>
To: <u>M. H.</u>	From: <u>Paul</u>			
Co./Dept.	Co.			
Phone #	Phone #			
Fax # <u>515-224-1365</u>	Fax #			

**BARKER, LEMAR & ASSOCIATES, INC.**

1300 Cummins Road - Suite 201  
Des Moines, Iowa 50315  
Phone: 515-256-8814  
Fax: 515-256-0152



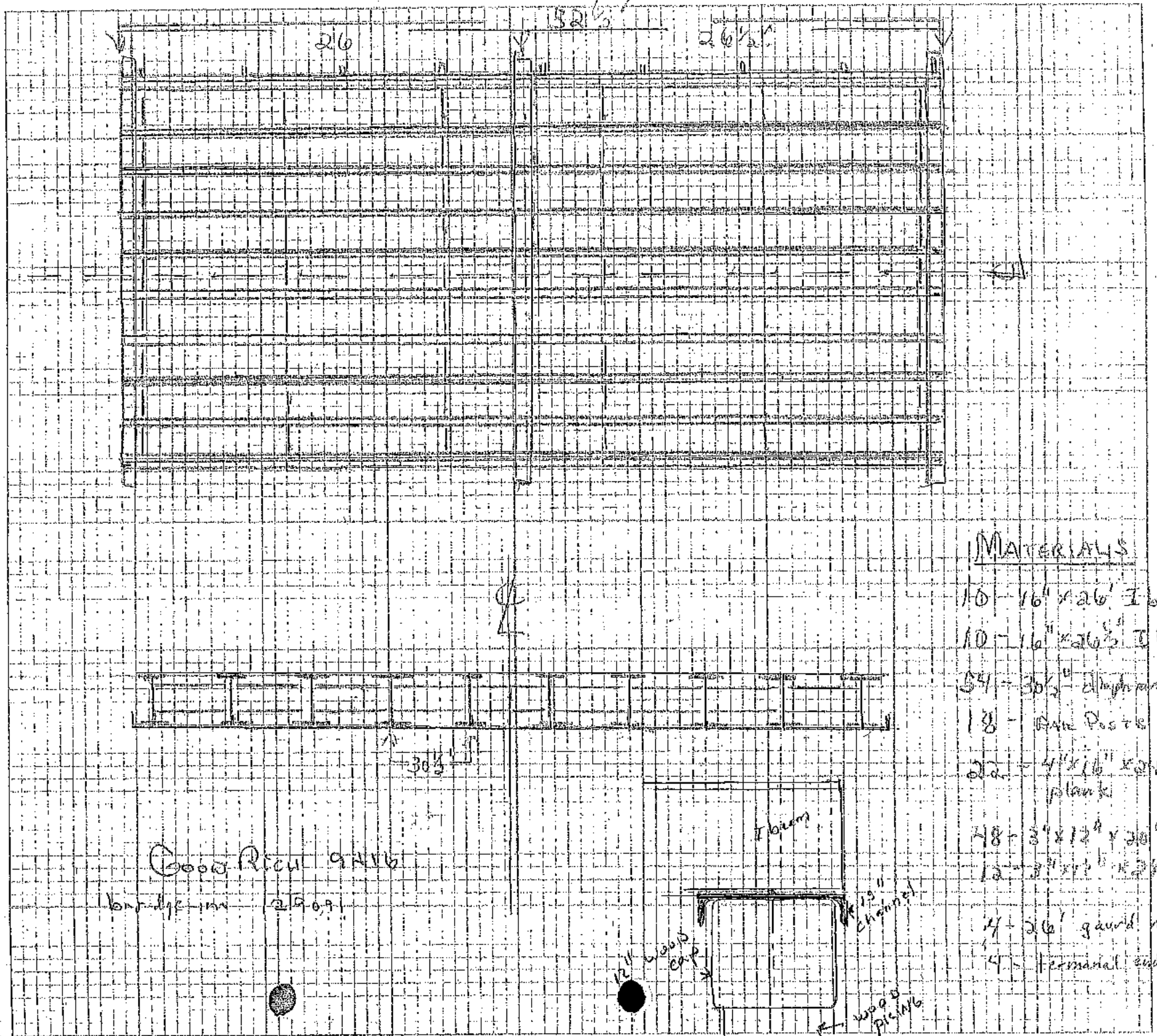
Client: \_\_\_\_\_

Site: \_\_\_\_\_

Project No: \_\_\_\_\_

Date: \_\_\_\_\_

Initials: \_\_\_\_\_



**MATERIALS**

- 10 - 16" x 26' I-beam
- 10 - 16" x 26 1/2" I-beam
- 54 - 30 1/2" x 1 1/2" x 1/2" aluminum
- 18 - Gate Posts
- 22 - 4" x 16" x 1/2" planks
- 48 - 3" x 12" x 20'
- 12 - 2" x 12" x 20'
- 4 - 26' guard rail
- 4 - terminal ends